LEBEDEV, O.P.; FRANTSUZOVA, T.A.; KUDELIN, V.N.

Determination of magnetite in iron cherts. Zav. lab. 31 nc.9:1069-1070 (MIRA 18:10)

1. Krivorozhskiy nauchno-issledovatel'skiy gornorudnyy institut i Severnyy gornoobogatitel'nyy kombinat.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610017-8"

KUKHTIKOVA, T.I.; FRANTSUZOVA, V.I.; YEFERINA, G.P.; ABRAMOVICH, I.B.; PAVLOVA, G.I.

Prevailing periods of surface waves. Dokl. AN Tadzh. SSR 6 no.3:17-21 '63. (MIRA 17:4)

l. Institut seysmostoykogo stroitel'stva i seysmologii AN Tadzhikskoy SSR. Predstavleno chlenom-korrespondentom AN Tadzhikskoy SSR R.B.Baratovym.

### "APPROVED FOR RELEASE: 06/13/2000

### CIA-RDP86-00513R000413610017-8

2 (1945 - 1945) - A1(1976 n 2015) - Esb Gw ACCRET ECH 면 - AR5013959

tR/0169/65/000/004/9017/<mark>0017</mark> 550.341

AUTHOR: Kikhtikova, T.I.; Frantsuzova, V.I.

TITLE: Correspondence between predominant periods and surface-wave spectra

SOURCE: Ref. zh. Geofizika, Abs. 4097

CITED SOURCE: Tr. In-t seysmostoyk. str-va 1 seysmol. AN TadzhSSR, v. 12, 1964,

84-96

TOPIC TAGS: seismic wave, surface wave, predominant period, seismic wave spectrum, surface wave spectrum

ABSTRACT: Visually determined approximate characteristics of surface waves were compared with their true spectra. Observations made by Kulyab and Knorog seismic stations for epicentral distances ranging from 1,200 to 2,000 km were used. Equipment distortions in the determination of true spectra were eliminated. Complex spectra were smoothed. Visually determined spectral characteristics of the true spectral maxima are only approximate and do not reflect their popularities. The approximate spectra of surface waves are narrower and are situated in the region

Cord 1/2

ACCESSION MR: AR5013959

of the principal maximum of the true spectrum, closer to its short-period section. The long-period constituents, not recorded visually, are well represented in the true spectrum. As determined by seismograms, the predominant periods and the periods of maximum amplitudes lie in the vicinity of periodical sections of the same true, which are classes to the maximum. In financial production of the same predominant periods, which are classes to the maximum. In financial ENCLY 00 STREAM R.

ENCLY 00 STREAM R.

TITLE: Working characteristics of <a href="mailto:seismographs">seismographs</a> of some stations in Central Asia

CITED SOURCE: Tr. In-t seysmostoyk, str-va i seysmol. AN YadzhSSR, v. 12, 1964, 193-195

TOPIC TMCS: <a href="mailto:seismograph">seismograph</a>

FRANSIALION: Some shortcomings in the determination of the parameter stations are not in the parameters to the seismograph in the parameters to the seismograph in the parameters of the network of seismograph at the parameters of the seismograph of the seismograph parameters nowhere indicate the area of the seismograph at the parameters and the seismograph of the seismograph of the seismograph of the seismograph of the seismograph parameters and the seismograph of the s

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# FRANTSUZOVA, Z.H.

Gonditioned and unconditioned responses in poliomyelitis. Yop.okh. mat. i det. 1 no.1:30-32 Ja-F '56. (MIRA 9:9)

1. Iz kliniki nervnykh bolezney Nauchno-issledovatel skogo pediatricheskogo instituta (dir.-prof. A.L.Libov)

(POLIONYELITIS) (CONDITIONED RESPONSE) (REFLEXES)

FRANTSUZOVA, Z. M.

FRANTSUZAVA, Z.L. Can Med Sci -- (diss) "Conditional and Absolute

Reflexes in Poliomyelitis in Children". Len, 1957, 10 phase.

(Ac. Sc. SSSR. Inst of Physiology im Academician I.P. Pavlov).

160 copies (KL, 10-58, 122).

- 50 -

### FRANULOVIC, Kuzma, inz.

Quality of the gravel of the Sava River for the making of beton in the Zagreb area. Gradevinar 14 no.3:75-79 Mr 162.

1. Institut za gradevinarstvo NRH.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610017-8"

## FRANULOVIC, Kuzma, inz.

Some methods for the testing of plastics used in building. Gradevinar 14 no.10:351-356 0 '62.

1. Institut za gradevinarstvo MRH, Zagreb.

FRANTIS, K.K., kapitan L-go ranga

The past and the future of mircreft carriers. Mor. abor. 48 no.4846-54 Ap 165. (MIRA 18:6)

**HUNGARY** 

BARANKAY, Bertalan, Dr., FRANTZELL, Marianne, Dr., LUDANY, Gyorgy, Dr., and VAJDA, Gyula, Dr., Second Surgical Clinic at the Medical University (Orvostudomanyi Egyetem, II. sz. Sebeszeti Klinika) (Director: MESTER, Endre, Dr.); and Hospital of the Hungarian National Railways (Magyar Allamvasutak Korhaz) Laboratory (Laboratorium) (Physician-in-Chief: GORECZKY, Laszlo, Dr.) in Budapest.

"Effect of Intravenously Injected Glucocorticoids on the Leukocyte Phagocytosis of Bacteria"

Budapest, Orvosi Hetilap, Vol 107, No 24, 12 Jun 1966, pp 1107-1109.

Abstract: Water-soluble glucocorticoids capable of being administered intravenously (Di-Adreson-F-Aquosum, Urbason, and Oradexon), when given in the generally employed therapeutic range, first decrease and then increase the leukocyte phagocytosis of bacteria. The diphasic effect involves the resistance of the organism against infection also: this fact is of significance to the clinician. The phenomenon is attributable probably to the cell metabolism effect rather than to changes in the segmentation of the granulocytes. 13 references, including 3 Hungarian, 2 German, and 10 Western.

1/1

- 35 -

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610017-8"

不翻消離器

# FRANCIAVIC P. Orthopedic corset. Acta chir. iugosl. 2 no.4:320-325 1955. 1. Kirursko odeljenje Oblasne vojne bolnice u Zagrebu (Nacelnik: puk. dr. Frans Kleinhappel) (ORTHOPEDICS, appar. & instruments corsets, anat. aspects & indic. (Ser))

FRANULOVIC, P.; RIBKIN, K.

Osteogenesis imperfecta; case reports. Acta chir. iugosl.
3 no.2:146-152 1956.

1. Kirursko odjeljenje Vojne bolnice u Zagrebu (nac. puk. dr. Franz Kleinhoppel).
(OSTEOGREWSIS IMPERFECETA, case reports
(Ser))

FRANUS, Edward (Krakow)

Problem of fear reaction factors in little children during their contact with animals. Przegl psychol no. 6:150-173 163.

ACCESSION NR; AP4032506

8/0080/64/037/004/0911/0914

AUTHOR: Fraymen, R. S.

TITIE: Design of reactors for the synthesis of methylchlorosilenes, taking into account the kinetic factors.

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 4, 1964, 911-914

TOPIC TAGS: methylchlorosilane, synthesis, reaction rate

ABSTRACT: The principal parameter which characterizes the intensity of operation of the reactor for synthesis of methylchlorosilanes (I) is their yield per 1 kg of contact mass per hour. Using this quantity one determines the magnitude of the charge for a given capacity reactor, which is determined to a significant extent by the geometrical dimensions of the apparatus. A significant effect on the yield of methylchlorosilanes in addition to the quality of contact mass and methyl chloride is displayed by the temperature, pressure and the time of retention of methyl chloride in the reaction zone. This article establishes the mathematical relationship of the indicated kinetic factors and their effect on the yield of (I). The obtained relationship has the form:

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ACCESSION NR: AP4032506

$$g = \frac{A}{\theta_{\rm D}} \cdot \frac{1 - e^{-kt}}{t}.$$

where g is the yield of (I); A is a composite constant (A = 3600/ $\gamma$  •v, where  $\gamma$  is the density of delivered contact mass in kg/m³ and  $\nu$  is specific volume of methyl chloride under parameters of synthesis);  $\beta_0$  is the specific consumption of methyl chloride in the reactor; t is an arbitrarily selected time of retention of methyl chloride in the reaction zone (sec). Using this formula the calculated yield is in good agreemement with the experimental results in a 200 mm reactor, for which the yield is 120 - 130 g/kg·hr, while the calculated amount is 130 g/kg·hr. Orig. art. has: 3 figures.

ASSOCIATION: None

SUBMITTED: 15Mar62

ENCL: 00

SUB CODE: OC

NO REF SOV: 001

OTHER: OOL

Card 2/2

FRANYO, Istvan; POLLAK, Laszlo

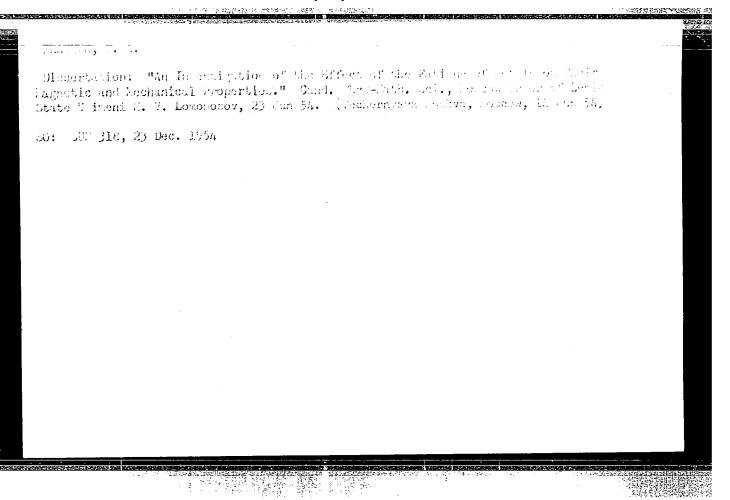
Frame antenna instead of ferrite antenna. Radiotechnika 12 no.12:
429 D '62.

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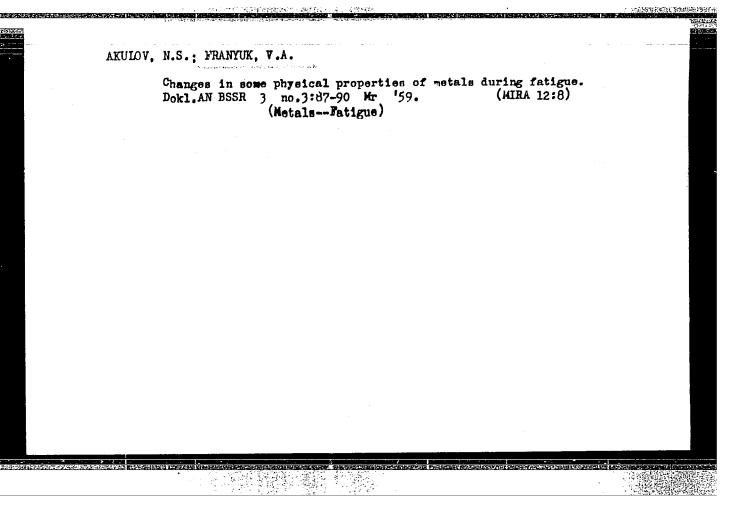
FRANYO, Istvan; POLAK, Laszlo

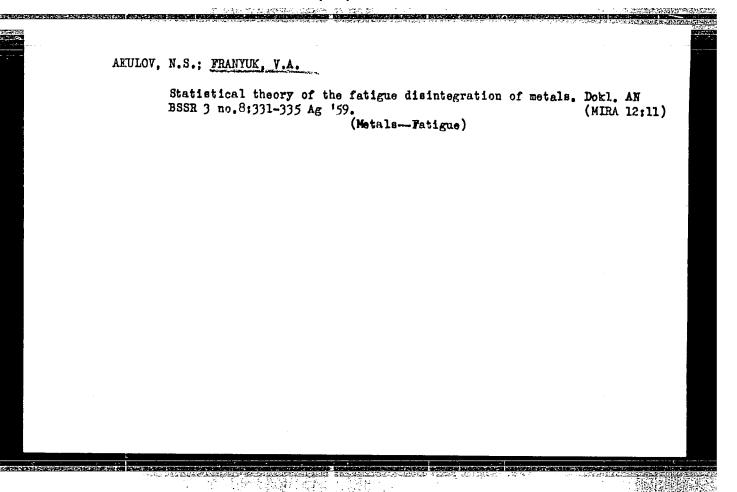
Why is an aerial antenna better? Radiotechnika 13 no.4: 159 Ap '63.

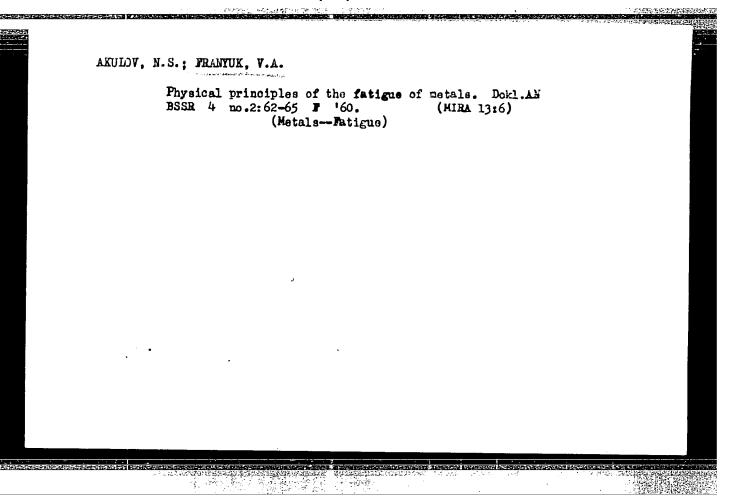
APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610017-8"



PHASE I BOOK EXPLUITATION - SOV/3371	Belorusskiy politicheskiy institut	Shornik nauchnykh rabot. Vyp. 60: Sertya fiziko-marematicheskaya (Collected Scientific Works. Nr 60: Prysics and Mathematics Series) Minsk, 1957. 167. Errata alip inserted. 1,000 copies princed.	ro vysshego obrazovaniya SSSR.	ch. Ed.: S. D. Pesins; Editorial Board: N. A. Bessonov, Dosett, Candidate of Physical and Matheastical Sciences (Resp. Ed.); H. V. Popova, Docent, Candidate of Physical and Matheastical Sciences; N. V. Afanas'yev, Docent, Candidate of Physical and Matheastical Sciences; N. V. Afanas'yev, Docent, Candidate of Physical and Matheastical Sciences; and L. I. Chenokov, Docent, Candidate of Physical	and matnessical Sciences (Resp. El. for this bunder).  SE: This book is intended for students of the physical and	heastist stances as collection of by articles on mathematics.  1008: This is a collection of prepared by contern of the collection and theoretical mechanics, prepared by the stalles (Bala.	organy pursentainteary interior issue as year- tean Polyteaning institute issue I. V. Stalin) and other est- ists. The mathematical material includes an analysis of prob- estating to the theory of univient functions of m complex	This, the boundary problem in the inerry of vibrations, and moments for its run-off of spring floods. The experisonal in the include suddies of the alectroscoalon process, craftalli-	gration from malts, abraate polithing of orgatists stream distri- bution in the frame of an automobils, and the static projecties of a body during its plastic deformation. References follow the todiringlarities plastic deformation.	Livehins, I. Wey and H. J. Therantovice. Simplifying the Trenhique of Approximate Galculation of Definite Integrals of by Pormulas of Humerical Quadratures.	Engineen, V. B. Monogram for the Pormula of G. M. Alekseyev for Calculating the Maximum Run-off of Spring Floods	Afanasiyat, M. V., A. N. Dashavich, and A. K. Shukavich.	Afanas'yav, M. V., M. B. Exhavetty, and V. A. Prinyik. About the Disperse Phase of Metal During Eigh-Voltage Spare Dis- chabge in a dascous Medium	Chambing, L. I. Effect of an Electric Field on the Formation of Urfetallization Centers in Supercooled Neit	Chambolov, L. I. Temperature Versua Activation Energy of Empercooled Molecules of Salol and Detol Melts	Peasonar, M. A. Relationship Detwoen the York, East, and Absorbed Energy in the Abrasive Wear of Rock Salt Crystals 116	Aksangtich, D. A., and M. A. Bessonow, Rifect of Surface Margy on the Abresive Wear of Grystals	ESCH, Professor, Exquetions of Plane de Proving the Theorem Acting on a Plate	Operion, F. A., Corresponding Neaber, AS BSSR, Professor, Bostor of Technical Sciences. On the Minimum Sum of Noments of Parries Acting on a Caterpillar Tractor in a Static State 138		Elekthorowich, P. V. Studying the Electic Behavior of a 147-4	The second secon	
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S/170/60/003/012/014/015 B019/B056

AUTHORS:

Yerofeyev, B. V., Academician of the AS BSSR, Treyer, V. N., Corresponding Member of the AS BBS, Franyuk, V.

Candidate of Physical and Mathematical Sciences

TITLE:

Nikolay Sergeyevich Akulov (On the Occasion of His 60th

Birthday)

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 12,

pp. 119-122

TEXT: On September 12, 1960, Academician of the AS BSSR, Professor N. S. Akulov was 60. He looks back upon a 35 years' activity as head of the Laboratory of Problems of Physics of the FTI AS BSSR. Akulov finish. high school in 1919, 1920 he joined the Red Army, and, after having been demobilized in 1921, he began to study at the khimicheskiy fakul'tet Kubanskogo politekhnicheskogo institut (Chemical Department of the Kuban Polytechnic Institute). From 1922 onward he studied at the fizikomatematicheskiy fakulitet (Department of Physics and Mathematics) at Moscow. Under the guidance of Professor M. A. Izgaryshev he studied the

Card 1/2

Nikolay Sergeyevich Akulov (On the Occasion of His 60th Birthday)

S/170/60/003/012/014/015 B019/B056

properties of aerosols and, after graduation, he became Aspirant at the Laboratory of Professor V. K. Arkad'yev. In 1928 he formulated the anisotropy law for ferromagnetic bodies, which is named after him. After having become a docent, he worked in the capacity at the Kafedra fiziki Gor'kovskogo gosudarstvennogo universiteta (Chair of Physics of Gor'kiy State University), where he set up the laboratory of magnetism and established the first Chair of Magnetism in the Soviet Union. Under his supervision, a large number of experts on magnetism were trained (Ye. I. Kondorskiy, N. L. Bryukhatov, K. P. Belov, G. P. D'yakov, D. I. Volkov et al.). In 1940 he was elected Member of the Academy of Sciences of the Belorusskaya SSR and also Secretary of the technical branch of the Academy. He was awarded the Order of the Red Banner of Labor and the Prize imeni M. V. Lomonosov. Among other things, he was also concerned with the physics of combustion processes and the strength of metals. This work was carried out in collaboration with the Fiziko-tekhnicheskiy institut AN BSSR (Institute of Physics and Technology of the AS BSSR). Together with Kunavina, Akimov, Sol'chev and others, he developed a vibration-defectoscope, which is widely in use. There is 1 figure.

Card 2/2

8/058/51/000/010/072/100 ACO1/A1C1

247100

AUTHORS: Akulov. N.S., Franyuk, V.A.

TITLES

Fatigue destruction of crystals

PERTODICAL: Referativnyy zhurnal. Fizika, no. 10, 1961, 242, abstract 10E85 ("Izv. AN BSSR. Ser. fiz. tekhn. r.", 1961, no. 1, 42 - 46)

The authors consider theoretically the effect of great oscillation amplitudes, exceeding the limit of crystal fatigue. It is possible that fixed dislocations are collapsed with formation in their stead of microcracks. Experimental relations are presented which connect the magnitude of applied external stresses with number of cycles at which microcracks arise, as well as changes of microhardness and magnetic induction with number of cycles. There is a good agreement between the form of the indicated relations and theoretical predictions.

V. Rozenberg

[Abatracter's notes Complete translation]

Card 1/1

CIA-RDP86-00513R000413610017-8" APPROVED FOR RELEASE: 06/13/2000

1.1110

S/139/61/000/001/014/018 E073/E535

26.2310

Afanas'yev, N. V., Rzhevskiy, M.B. and Franyuk, V.A.

TITLE

On the Mechanism of Electric Erosion

PERTODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Fizika,

1961, No.1, pp.138-142 + 2 plates

TEXT: The results are described of investigations of the product of electric erosion in the case of a high voltage spark discharge in a gaseous medium. Most authors hold the view that electric erosion of metals is caused by thermal effects on the electrodes. However, divergent views have been expressed on the mechanism of removal of material from the electrodes. B, R, and N. I. Lazarenko (Ref.1) assume that the section of the anode hit by the current surge melts away and is torn off the electrode as a result of the dynamic forces. However, E. Williams (Ref.2) considers that an electric field of a high potential which occurs in the erosion gap acts on the positive ions of the crystal lattice and tears away small quantities of metal. B. N. Zolotykh (Ref.3) considers that electric erosion is mainly due to the liquid phase and that evaporation is of secondary importance, S.L. Mandel shtam and S. M. Rayskiy (Ref.4) attribute the electric erosion to the Card 1/6

APPROVED FOR RELEASE: 06/13/2000

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CIA-RDP86-00513R000413610017-8"

On the Mechanism of Electric Erosion

S/139/61/000/001/014/018 E073/E535

mechanical destruction of opposing electrodes by the streams of metal vapour which occur as a result of explosive evaporation of the electrode material during the discharge. The authors of this paper investigated the products of electric erosion obtained by means of a high voltage spark discharge in air between electrodes of various metals. The experiments were made with a test-rig shown in Fig.1, in which a bank of condensers 4 of  $C = 2.4 \mu F$  was connected parallel to the spark gap. The voltage fed to the electrodes was 7000 V. A glass plate 5 was placed below the electrodes on which deposits were collected which formed during the spark discharge; after appropriate sparking, the glass plates, containing the erosion product deposits, were photographed and some of the thus obtained photographs are reproduced in the paper. As electrodes the following materials were used: tungsten, nickel, copper, armco iron, aluminium, lead, bismuth, Wood alloy. obtained photographs indicate that, during the discharge, metal vapours form which condense on the surface of the glass and also a liquid phase which precipitates in the form of spheres of various The process of electric erosion begins with an intensive sizes. Card 2/6

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On the Mechanism of Electric Erosion

S/139/61/000/001/014/018 E073/E535

evaporation of the electrode material, as a result of which two flows of particles form which meet in the inter-electrode gap. As a result of collision of the particles, flows become compressed, forming deposits on the glass which have an elliptical shape. sharply defined boundaries between the individual zones observed on the photographs are attributed to the oscillatory nature of the discharge which was established by means of an oscillograph; clear boundaries of areas with different densities may have formed as a result of precipitation of vapours from the electrodes during the first, second and third half-wave of the current flow. Absence of vapours in the centre zone was observed on plates which were located very near to the discharge axis and this is attributed to the fact that in this zone the glass plate was heated to a temperature which was higher than the condensation temperature of the vapours. The subsequent zone was formed as a result of super-position of several flows of vapour particles during the first, second and third current half-waves and in this zone no trails of movement of spheres can be In the subsequent zone, these traces can be clearly seen since the vapours condense on dropping into the lower temperature area condensing and forming small spheres which drop onto the plate Card 3/6

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On the Mechanism of Electric Erosion E073/

S/139/61/000/001/014/018 E073/E535

and slide along the vapour layer deposited on it, leaving behind trails of its movement. Spheres of this type could form only after the first half-wave when the electrodes already had small craters caused by evaporation of the metal. The surface layer of such craters will still have a high temperature during the subsequent current half-wave when its temperature rises still further, evaporating a part of the metal and, due to the pressures in the spark gap, a part of the liquid phase will be squeezed out in the form of spheres of various diameters which scatter in all directions; therefore, these spheres and their traces can be detected in all the areas of the deposits on the glass plates. Due to the presence of spheres of this latter type, the views of Williams and Zolotykh that removal of the solid or liquid phase from the electrode is caused by the electrostatic forces seem to be incorrect. were true the particles would move approximately along lines of force of the field and in this case they would deposit only on the opposite electrodes; in reality, however, the trajectories of the particles form a large scattering angle relative to the discharge axis which may reach 80 to 90°. The views of Mandel'shtam and Rayskiy, who assume that the destruction of the electrodes occurs Card 4/6

On the Mechanism of Electric Erosion E073/E535

due to the effect of the jets emanating from the opposing electrodes, are also unacceptable, since the obtained photographs of the erosion product deposits show that the flow of particles from the electrodes do not penetrate into each other but, on the contrary, they repulse each other. The results indicate that, during a discharge, electrode material is removed, not only in the gaseous but also in the liquid phase. The following conclusions are arrived at: 1) In the case of a condensed high voltage spark discharge in a gaseous medium, the flow of particles emanating from the electrodes represents a two-phase system containing a R liquid and a gaseous phase. This applies to low melting point as well as to high melting point metals. 2) The intensity of the flow of particles emanating from the electrodes during the discharge depends on the material of the electrodes; from low melting point metals the intensity of flow is larger than for high melting point metals. 3) Evaporation of the metal from the electrodes takes place throughout the entire time of the discharge. Abandoning the electrodes in the gaseous phase the metal condenses and scatters in the surrounding medium in the form of fine spheres.

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Card 5/6

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4) In the liquid phase the metal is removed from the electrodes after the first or the second current half-wave. Removal of the liquid phase does not occur as a result of tearing out of the metal but as a result of the high pressures pertaining in the discharge canal. 5) The vapour streams emanating from the electrodes cannot produce mechanical destruction of the counter electrode since they meet in the gap centre and compress each other. 6) Electric erosion products of metals contain spheres which form as a result of condensation of metal vapours and spheres which form as a result of being squeezed out from the liquid phase of the craters. There are 8 figures and 4 references: 3 Soviet and 1 non-Soviet.

ASSOCIATION: Belorusskiy politekhnicheskiy institut imeni I.V. Stalina (Belorussian Polytechnical Institute imeni I. V. Stalin)

SUBMITTED: September 24, 1959

9 Fig.1

Card 6/6

8/137/62/000/004/104/201 A052/A101

AUTHOR:

Franyuk, V, A,

TITLE:

The effect of alternate stresses on magnetic and mechanical proper-

ties of metals

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 4, 1962, 34, abstract 41194

("Vestsi AN BSSR, Ser, fiz.-tekhn, n.", no. 2, 1961, 122-126;

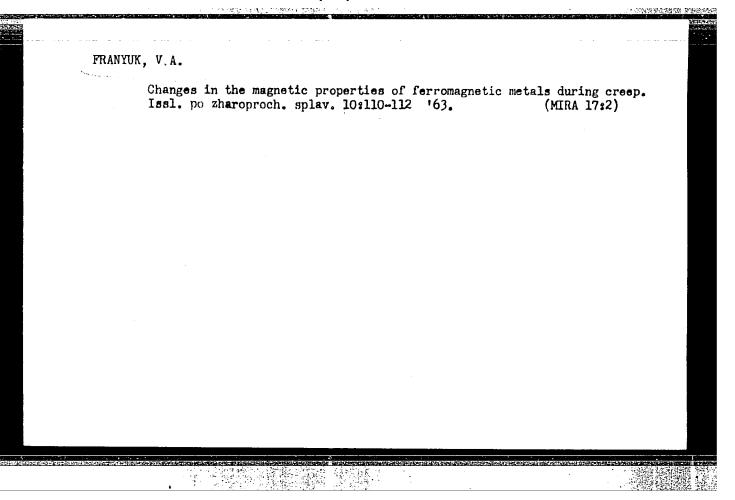
Belorussian; - Russian summary)

TEXT: The magnetic permeability and microhardness of Fe affected by alternate stresses with an amplitude exceeding  $b_{\rm W}$  change non-monotonously. An increase of microhardness corresponds to the decrease of permeability and vice versa. The failure of samples took place after the 4th extremum on the magnetic permeability curve as a function of the number of cycles, which made it possible to divide the process of fatigue into several stages. An application of an intermediate annealing in different stages permitted the selection of favorable conditions for increasing the fatigue strength of Fe.

T Rumyantseva

[Abstracter's note: Complete translation]

Card 1/1



ACCESSION NOr AP4014697

S/0250/64/008/001/0033/0035

AUTHOR: Franyuk, V. A.

TITLE: Progress of the approach to the halting of creep (delivered by N. S. Akulov, academician of AN BSSR)

SOURCE: AN BESS. Doklady\*, v. 8, no. 1, 33-35

TOPIC TAGS: creep deformation, creep rate, creep limit, dislocation, magnetization measurement, electrolytic nickel

ABSTRACT: Tubular samples of electrolytic nickel were subjected to a constant torque. The rate of creep deformation was found to decrease exponentially with time, verifying earlier results on copper wire. Simultaneous measurements of the sample magnetization were made in a field of 0.5 oersted with an astatic magnetometer. The rate of magnetization increase was also found to decrease exponentially with time. A theoretical discussion indicates that dislocations in the sample (caused by the deformation) result in the redistribution of magnetic domains. With an applied external magnetic field, the reorientation of domains proceeds preferentially in the direction of the field, resulting in increased magnetization. Hence, the rate of magnetization increase should be related to the

Card 1/2

ACCESSION NO: AP4014697

creep deformation rate, as is indicated experimentally. Orig. art. has: 6 equations and 2 diagrams.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN BSSR (Institute of Physics and Technology, AN BSSR)

SUBMITTED: 22Mar63 DATE ACQ: 26Feb64

ENCL: 00

SUB CODE: MA, PH

NO REF SOV: 001

OTHER: 000

Card 2/2

ACCESSION NR: AP4039328

\$/0250/64/008/004/0228/0230

AUTHOR: Franyuk, V. A. (presented by N. S. Akulov, Academician AN BSSR)

TITLE: Influence of a magnetic field on the creep of polycrystalline nickel

SOURCE: AN BSSR. Doklady\*, v. 8, no. 4, 1964, 228-230

TOPIC TAGS: creep, nickel, magnetic field effect, creep deformation, creep velocity

ABSTRACT: The effect of a magnetic field on creep deformation was investigated experimentally. Creep deformation was produced by twisting a nickel tube (o.d.-4:2 mm, wall thickness-0.5 mm) at a constant shearing stress. Typical results are shown on Fig. 1 on the Enclosure, where  $\propto$  on the ordinate axis is proportional to the shear deformation. At t = 0 the constant load was applied without a magnetic field. At point A, when the velocity of creep deformation had become insignificant, a constant magnetic field H = 20 cersteds was applied to the sample. At point B the constant field was replaced by a variable field with an amplitude of 20 cersteds. Some time after the application of the constant field, (when the creep velocity was approximately equal to that before the application of the field), the field was turned off. No noticeable change in creep velocity was observed.

ACCESSION NR: AP4039328

It was also found that the total increase of deformation was directly proportional to the square of the magnetization. Orig. art. has: 3 equations and 2 diagrams.

ASSOCIATION: Fiziko-tekhnicheskiy Institut AN BSSR (Physicotechnical Institut AN BSSR)

SUBMITTED: 24May63

DATE ACQ: 09Jun64

ENCL: O1

SUB CODE:

,MM

NO REF SOV: 003

OTHER: 003

Cord 2/3

GALENKO, P.P.; FRANYUK, V.A.

Statistical theory of the akulov dislocation. Fiz. met. i metalloved. 15 no.5:773-778 My 163. (MIRA 1628)

1. Laboratoriya fizicheskikh problem Fiziko-tekhnicheskogo 1. Laboratoriya \_\_\_\_\_
instituta AN BSSR.

(Dislocations in metals)

FRANYUK, V.A.

Effect of a magnetic field on creep of polycrystalline nickel. Dokl. AN BSSR 8 no.4:228-230 Ap '64. (MIRA 17:6)

1. Fiziko-tekh ichoskiy institut AN RESR. Predstavleno akademikom AN BSSR N.S. Akulovym.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610017-8"

ACC NRI AP7000157

SOURCE CODE: UR/0250/66/010/011/0856/0858

to the second second

AUTHOR: Franyuk, V. A.

ORG: Department of the Physics of Nondestructive Testing, AN BSSR (Otdel fiziki nerazrushayushchego kontrolya AN BSSR)

TITLE: The change in shear modulus of deformed nickel in a magnetic field

SOURCE: AN BSSR. Doklady, v. 10, no. 11, 1966, 856-858

TOPIC TAGS: nickel, ferromagnetic material, shear strength, shear modulus, domain structure, dislocation effect, magnetostriction

ABSTRACT: Shear modulus changes were studied in deformed nickel under a simultaneous magnetic field (ΔG effect). Nickel tubes having an external diameter of 4.2 mm and a length of 50 mm were deformed in torsion. After a given torsion load was applied, an external magnetic field was superimposed on the specimen and the change in torsion angle was recorded. Simultaneous measurements of linear magnetostriction were made by a mechano-optical lever. Shear modulus changes were obtained using both high frequency (a few thousand cps) and low frequency (a few cps) oscillations. The relative change in shear modulus was given as a function of applied external field for tangential stresses of 0.34, 0.7, 1.01, and 1.35 kg/mm². At every level of stress a minimum occurred at 100 cersted, while above 200 cersted the relative change in shear modulus in-

Card 1/2

ACC NR AP7000157

creased linearly. These changes were caused by changes in domain distribution. Shifts of 180 and 90° affect the  $\Delta G$  effect differently. In the case of a 180° shift there is no change in the dimensions of a body, with the exception of a magnetostrictive effect within the domain boundaries. The interaction energy of edge dislocations parallel to a 180° wall was proportional to the magnetostrictive constant, the shear modulus, the Burger's vector, and the boundary thickness. In the case of a 90° shift a change in the volume magnetoelastic energy occurs, resulting in a change of body dimensions (magnetostrictive effect). The relative changes in shear modulus at low fields was attributed to 90° shifts of domains. At higher fields their contributions were diminished, decreasing the rise in relative shear modulus. The change of maximum increment of deformation, caused by magnetization, for different values of shear stress rose sharply at first and then became linear. This was caused by 90° domain shifts interacting with mobile dislocations in a stressed ferromagnetic. Presented by Academician AN BSSR, N. S. Akudov. Orig. art. has: 2 figures, 1 formula.

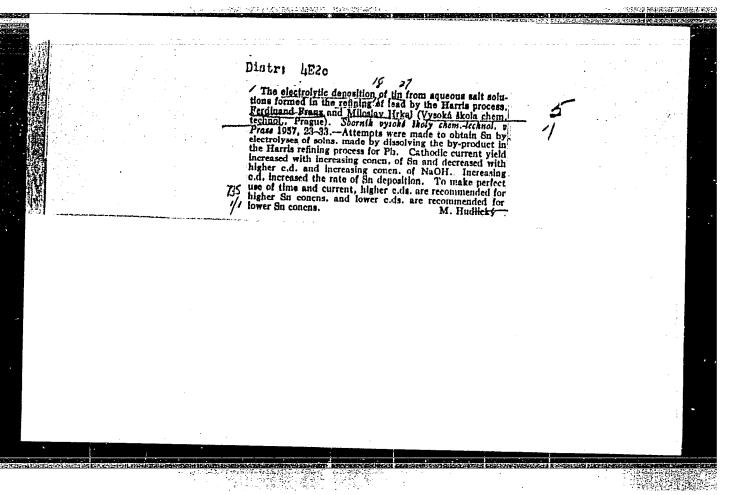
SUB CODE: 11,20/ SUBM DATE: 10Jun66/ ORIG REF: 004/ OTH REF: 004

Card 2/2

FRANZ, Ferdinand

Korose kovu a jejich ochrana. 1./dil/. Zakladni poznatky. (Corrosion of Metals and Their Protection. Vol. 1. Principles; a university textbook. 1st ed. illus.) For the students of the Faculty of Inorganic Technology, Department of the Chemical Technology of Metals. Prague, SNTL, 1957,124 p.

Bibliograficky katalog, CSR, Ceske knihy, No. 33. 24 Sept 57. p. 724.



# FRANZ, Ferdinand; VALENTA, Boris

Hydrogen brittleness of cadmium plated springs. Shor chem tech no.3, part 1:209-225 159.

1. Katedra anorganicke technologie, Vysoka skola chemicko-technologicka, Praha.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610017-8"

KRALICEK, Ladislav [deceased]; FRANZ, Ferdinand; QUADRAT, Otakar st.

Study of reactions between oxides and sulfides of metals used in metallurgy. Stor chem tech 4 no.2:141-157 \*60. (EEAI 10:9/10)

1. Katedra chemicke technologie kovu, Vysoka skola chemicko-technologicka, Praha.

(Metals) (Oxides) (Sulfides)

BURDA, Pavel; BRETT, Zdenek; FRANZ, Ferdinand

The mass transfer in liquid metal systems with thermal gradient, Sbor chem tech 4 no.2:159-170 '60. (EEAI 10:9/10)

1. Katedra chemicke technologie kovu, Vysoka skola chemicko-technologicka, Praha.

(Metals)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610017-8"

DIMITROV, D.I.; FRATEV, F.D.

Oxidation of aromatic hydrocarbons with the aid of potassium permanganate. Pt.4. Godishnik khim tekh 9 no.2: 133-144 '62 [publ. '63].

DIMITROV, D.; FRATEV, F.; STEPAROVA, A.; BRATKOVA, M.

Some color reactions of aromatic compounds. Pt.4. Godishnik khim tekh 9 no.2:209-219 162 [publ. 163].

FRANZ, F.; SANDERA, L.

Corrosion of the iron-zinc system. Strojirenstvi 13 no.11: 844-846 N '63.

1. Katedra chemicke technologie kovu, Vysoka skola chemickotech-nologicka, Praha.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610017-8"

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DIMITROV, D.; FRATEV, F.

New type of complex products of donor-acceptor interaction between aromatic systems and nitrosyl cation. Doklady BAN 16 no. 8: 825-828 '63.

1. Submitted by Corresponding Member B. Kourtev [Kurtev, B.]

## FRANZ, Ferdinand

"Chemical and electrochemical surface treatment of materials" by F. Trojanek. Reviewed by Ferdinand Franz. Chem prum 14 no.12:674

1. Higher School of Chemical Technology, Prague.

L 59609-65 SPF(c)/EWA(d)/EWP(t)/EWP(z)/EACCESSION NR: AP5020424	CZ/0034/64/000/008/0562/0566
AUTHOR: Franz, Ferdinand (Engineer, Docto (Engineer); Prazak, Milan (Engineer, Candi TITLE: Use of the polarograph for the rec	date of sciences)
SOURCE: Hutnicke listy, no. 8, 1964, 562-	
TOPIC TAGS: - metal corresion, pole graphy ferritic steel, pearlitic steel, austeniti	
ABSTRACT: The potentiostat is used to stud expensive. Classical potentiostats are si their use in the study of metal corrosion. corrosion studies, and discuss the necessaries for this purpose; the polarograph thus alice octained with instrument in studies are described formulas.	mpler and cheaper, and the authors describe The authors used a polarograph for the ary modifications of the instrument when as became a classical potentiostat. Re- on stanless territic pearlitic.
Card 1/25	

#### "APPROVED FOR RELEASE: 06/13/2000

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ACCESSION NR: AP5020424

2

ASSOCIATION: Katedra chemicke technologie kovu VSCMT, Prague (Department of Chemical Technology of Metals <u>VSCMT</u>): Statni vyzkumny ustav ochrany materialu G. V. Akimova, Prague (State Research Institut for the Protection of Materials)

SUBMITTED: 00

ENCL: 00

SUB CODE: FM, EC

NR REF SOV: 000

OTHER: 017

**JPRS** 

Card 2/2

HULUBEI, H., acad.; MARTALOGU, N.; IVASCU, M.; BESLIU, C.; BERINDE, A.; NEAMU, I.; FRANZ, I.

Angular distribution of the protons of 6.2 MeV, elastically and nonelastically diffused on S<sup>32</sup>. Studii cerc fiz 11 no.4:1023-1031 '60. (KEAI 10:8)

1. Institutul de fizica atomica, Bucuresti. 2. Comitetul de redactie, Studii si cercetari de fizica, redactor responsabil(for Hulubei).

(Angular momentum(Nuclear physics)) (Protons)

(Nuclear emulsions) (Sulfur) (Radioisotopes)

38650

8/056/62/042/006/001/047 B104/B102

24 66.10

AUTHORS: Hulubei, H., Neamu, I., Franz, I., Martalogu, N., Scintei, N.,

Ivascu, M., Berinde, A.

TITLE: Scattering of low energy proton from S<sup>32</sup>

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 6, 1962, 1433 - 1437

TEXT: Experiments were carried out with the y-120 (U-120) cyclotron of the Institute of Atomic Physics in Bucharest. Protons of 5.70, 5.85, 6.02, 6.20 and 6.34 Mev with an energy spread of 150 kev were focused into a scattering chamber with a tantalum tube. 4 diaphragmas in this tube reduced the diameter of the incident particle beam to 4 mm. The vacuum sputtered 5<sup>32</sup> target had a surface area of 4 cm<sup>2</sup> and a thickness of less than 2 mg/cm<sup>2</sup>. The sensitivity of the angular distributions of inelastically scattered protons to the incident proton energy (Fig. 2) indicates the formation of a compound nucleus. The asymmetry of the distribution curve may be explained by direct interaction. The angular distribution curves of

Card 1/4 -7

Scattering of low energy proton from  $\mbox{S}^{\mbox{\scriptsize $32$}}$ 

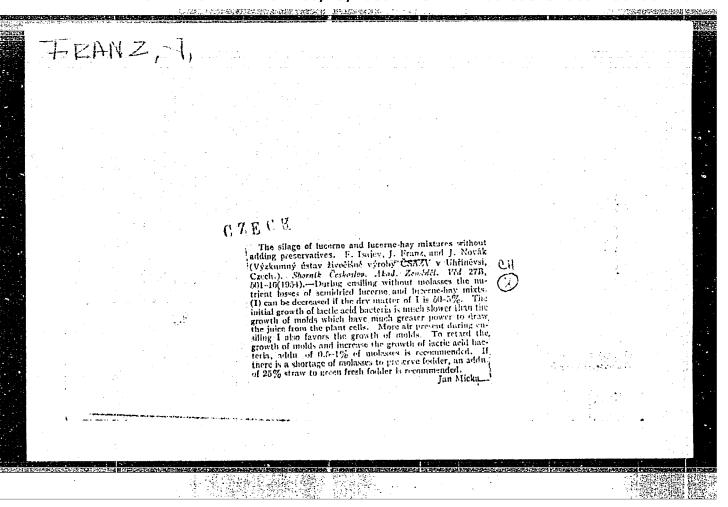
S/056/62/042/006/001/047 B104/B102

elastically scattered protons show that the reaction mechanism via compound nucleus formation in elastic processes with E  $_{p}$   $\simeq 6.02$  - 6.34 MeV plays an increasingly important role. There are 4 figures.

ASSOCIATION: Institut atomnoy fiziki Akademii nauk Rumynskoy Narodnoy Respubliki Bukharest (Institute of Atomic Physics of the Academy of Sciences of the Rumanian People's Republic, Bucharest)

SUBMITTED: November 12, 1961

Card 2/# 7



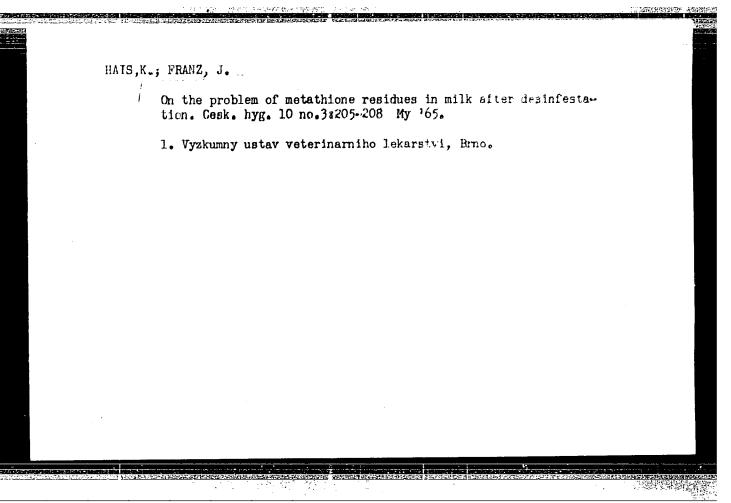
## FRANZ, J.

TECHNOLOGY

Periodical: SVET MOTORU. Vol. 12, no. 16, Aug. 1958.

FRANZ, J. Physician about helmets. p. 507.

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.



CZECHOSLOVAKIA UDC 612.014.469(:547-118.5):616-633.563.13-074

MELICHAR, Bohuslav; FRANZ, Jaroslav; Biochemical Department, Research Institute of Veterinary Medicine (Biochemicke Oddeleni Vyzkumeho Ustavu Veterinarniho Lekarstvi), Brno - Medlanky.

"Determination of p-nitro-m-cresol in Urine After Exposure to Meta-thione."

Prague, Pracovni Lekarstvi, Vol 18, No 3, Apr 66, pp 112 - 115.

Abstract /Authors' English summary modified 7: The authors developed a method for direct determination of p-nitro-m-cresol in urine; it is based on acid hydrolysis of urine, oxidation of pigments by H<sub>2</sub>O<sub>2</sub>, and separation of p-nitro-m-cresol from the residual pigments by acetonitrile from 5N NaOH solution. Spectrophoto-metric determination is made in 1N NaOH solution at 400 nm after acetonitrile was distilled off. The accuracy at concentrations of appm was 97.3+6.3% and at 5 ppm 92.6 ± 2.4% of the added amount. As little as 1.5 micrograms of p-nitro-m-cresol in 10 ml of urine can be detected. The method is suitable for exposure tests for Metathiono which significantly inhibits cholinesterase. 3 Figures, 16 Western, 7 Czech references. (Manuscript received 18 May 65).

FRANZ, M.; HUBNER, W.; DOLINSZKY, Tamas [translator]

Dose and dosimetry. Atom taj 2 no.3:75-84 '59.

1. "Atomtechnikai Tajekoztato" szerkesztoje es lektora.

SRB, Vaclav; FRANZ, Milan

Electrolytic production of Maio. Shor chem tech no.3, part 1:51-69

1. Katedra anorganicke technologie, Vysoka skola chemicko-technologicka, Praha.

FRANZ, R.

"Ozone"

p. 4 (Ceskoslovensky Vojak) Vol. 6, no. 25, Dec. 1957 Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

## FRANZ, Stanislay

CZECHOSLOVAKIA/General Biology - Postembryonic Development.

в.

Abs Jour

: Ref Zhur - Blol., No 21, 1958, 94640

Author

: Frank, Stanislav

Inst

: Charles University

Title

: Biology of Reproduction and Postembryonic Development of

Blicca byoerkna (Linne) 1758.

Orig Pub

: Univ. carolina. Biol., 1956, 2, No 1, 13-38.

Abstract

The spawning cycle of Blicca bjoerkna was investigated in May-September 1954 in natural conditions and the early development of embryos in an aquarium. Air temperature fluctuated from plus 8° to plus 22°, atmospheric pressure from 730 to 748 mm. In a small landlocked lake near the Elbe River, spawning occurred at 20°. In the aquarium at 14-19° development to the moment of switching to external feeding continued 12 days. The first scales emerged

Card 1/2

- 24 -

#### FRANZ, S.

Organization of maternal and child welfare department at the Masaryk Health Center in Prague. Prakt. lek., Praha 31 nos. 13-14:301-303 5 July 1951 (CIML 21:1)

1. Of the Obstetric-Gynecological Department (Head -- S. Franz, M.D.) of Masaryk Health Center in Prague-Krc.

FRANC, 3.

"Infact.ous hepatitis during pregnancy." p. 367. (GASC IS ISPACE CASEVOR, Vol. 92, no. 14, Apr. 1953, Praha.)

So: Nonthly List of East European Accessions, Vol. 2, # 10 Library of Congress October 1953, Uncl.

enhan. ot.

Gynec. porod. Ustavu materst. stat. lec.oset. ustavu : raze Krci. \*Infekcni hepatitis v tehotenstvi. Infectious hepatitis in pregnancy CAS. LEK. CAS. 1953, 92/14 (367-374) Tables 1

Functional insufficiency of the liver is often ascribed to pregnancy, but, as the pathological postmortem findings in pregnant women do not support this. It is thought that the liver insufficiently is actually side to infectious hepatitis. Among 33 somen with interval in the course of pregnancy, and the pregnancy was not adversely influenced thereby. In 17 women with infectious hepatitis during pregnancy, the pregnancy ran a normal couse to a normal delivery. Il women developed infectious hepatitis during labour with one death, in which, however, sepsis could not be completely eliminated. Transmission of the infection to the child was not observed.

Prochazka - Prague (XX, 6,7, 10)

SO: EXCERCIA MEDICA, Vol. 8, No. 5, Section VI, May 1954

Cynecologic-Chotelric Dept., Inst. 7 Mother and child and of the State Therapeutic Inst., Prague, Krc.

WRANZ, Stanislav; HODER, Josef; IPSER, Josef; MATENA, Vladimir; POCH, Robert

Medical apparatus and appliance. Cas. lek. cesk. 97 no.23-24:759-761 6 June 58.

l. Gyn. por. odd. Thomayerovy nemocnice v Praze-Krci, prednosta prim. dr. S. Franz, I. chir. klinika KU, prednosta akademik A. Jirasek, Vyzkumny ustav balneologicky, reditel prof. dr. K. Prerovsky, Vyzkumny ustav stowatologicky, reditel doc. dr. J. Kostlan, internu klinika hyg. fakulty, prednosta prof. dr. V. Jonas. St. F., Praha 12, Srobarova 23. (APPARATUS.

prod. in Czech. (Cz))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610017-8"

FRANZ, Zdzislaw; HILLER, Jan; STACHURA, Aleksander

Primary staphylococcal pneumonia in adults. Pol. tyg. lek. 19 no.16: 601-603 13 Ap '64.

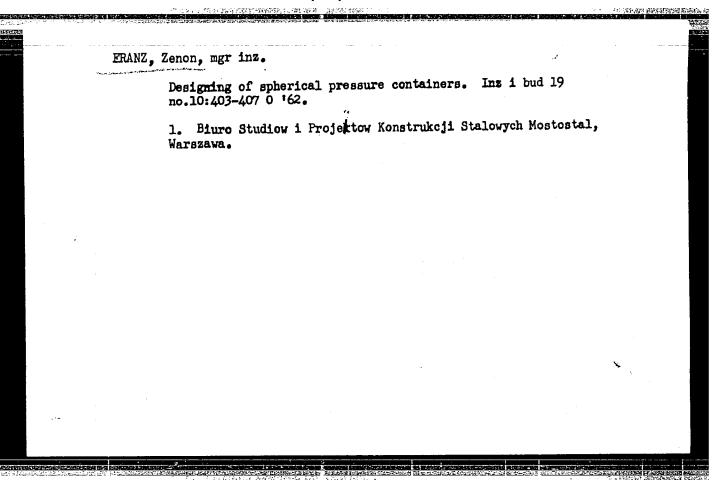
1. Z Oddzialu Chorob Wewnetrznych Szpitala Miejskiego nr 2 w Myslowicach (ordynator: dr. med. Z. Franz).

KOKOT, Franciszek; FRANZ, Zdzielaw, dr. med.; ALFXSANDROWICZ, Jerzy

A case of chyluria. Pol. tyg. lek. 19 no.50:1936-1937 14 D 64.

1. Z III Kliniki Chorob Wewnetrznych Slaskiej Akademii Medycznej w Katowicach (Kierownik: prof. dr. med. K. Gibinski) i ze Szpitala Miejskiego nr. 2 w Myslowicach (Ordynator: dr. med. Z. Franz).

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610017-8"



### FRANZ, Zdzislaw

Case of cor bovinum with extensive dilation of the auricles. Polski tygod. lek. 11 no.23:1034-1037 4 June 56.

1. Z Oddzialu Chorob Wewnetrznych Szpitala Miejskiego Nr 2 w Myslowicach: dyrektor: dr. med. Tadeusz Boczon, Myslowice, 9 Maja 1.

(CARDIAC ENLARGMENT, case reports, cor bovinum with auric, dilat, (Pol))

FRANZE, W.

TECHNOLOGY

PERIODICAL: BOR ES CIPOTECHNIKA. Vol. 8, no. 5, Oct. 1958

Franze, W. Introduction of the greatest economic publishing house of the German Democratic Republic in Hungary. p. 1hh.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2, February 1959, Unclass.

PETROVSKY, D.; FRANZEN, F.

Specific therapy of typhus abdominalis. Lek. listy, Brno 6 no.23:729-733 l Dec 51. (CIML 21:4)

1. Of the Infectious Department of Zlate Moravce State Hospital.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610017-8"

New and interesting Foraminifera species. In English. p.211.
(Manyar Nemzoti Muzeum Termezettudomayi Muzeum Evkonyve, Vol. 7, 1956, Eudapest, Hungary)

SO: Monthly List of East European Accessions (SEAL) IC. Vol. 6, no. 9, Sept. 1957. Uncl.

FRANZHOLI, N.M.

Effectiveness of eryside in treating cardiovascular insufficiency in children. Ped., akush. i gin. 23 no.4127-28 461. (MIRA 17:1)

1. L'vovskiy nauchno-issledovatel skiy institut Ukrainskogo nauchno-issledovatel skogo instituta okhrany materimatva i detstva im. Geroya Sovetskogo Soyuza prof.P.M.Buyka (nauchnyy rukovoditel! -- dotsent I.M.Rudnev [Rudniev, I.M.]).

LIVSHITS, TS.A. [Livshyts, TS.A.], kand.med.nauk; ZEMTSOVA, N.O.; FRANZHOLI, N.N.; SHVABOVSKIY, V.A. [Shvabovs'kyi, V.A.]

Intraosseous drip infusion of saline solutions for infants. Ped., akush. i gin. 19 no.3:28-29 '57. (MIRA 13:1)

1. L'vovskiy nauchno-issledovatel'skiy institut okhrany materinstva i detstva (direktor - I.D. Yashchuk) na baze Oblastnoy klinicheskoy bol'nitsy (glavnyy vrach - I.A. Karagodin).

(INJECTIONS, SALINE)

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Francka, Ch.

GDR / Chemical Technology. Chemical Products and Their Application. Fats and Oils. Waxes.

Soaps and Dotorgonts. Flotation Agonts.

Abs Jour: Rof Zhur-Khimiya, No 9, 1959, 32960.

Author: Iwainsky, H., Franzke, Cl.

Inst : Not givon.

: Antioxidant Action of the Hydrazide of Isoni-Titlo

cotinic Acid.

Orig Pub: Nahrung, 1958, 2, No 1, 53-60.

Abstract: There has been studied the antiexident action (AA)

of the hydrazides of isonicotinic acid (I - hydrazidos), isonicotinic acid and N-isonicotinyl-N'acotyl-hydrazine, introduced into margarine during stirring at a concontration of 0.1-0.61% Margarine specimens were kept at 25° in diffuse daylight; at dofinite time intervals, their perex-

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FRANZL, M.

Measuring the capacitance of high-tension installations. p. 147. ELEKTROTECHNIK. (M inisterstvo strojirenstvi) Praha. Vol 11, no. 5, May 1956.

SOURCES: EEAL - LC Vol. 5, No. 10 OCT. 1956

I KAREA, MILAN

### PHASE I BOOK EXPLOITATION SOV/4409

Československá akademie věd. Sekce technická

Práce ústavu pro elektrotechniku ČSAV z r. 1958, IX (Proceedings of the Institute for Electrical Engineering of the ČSAV (Czechoslovak Academy of Sciences) for 1958, No. 9) Prague, 1959. 193 p. 700 copies printed.

Scientific Ed.: Miloslav Tayerle, Engineer, Doctor; Ed. of this issue: Marie Moravcová; Tech. Ed.: František Končický.

PURPOSE: This collection of articles is intended for specialists in the field of high-voltage technique.

COVERAGE: The collection contains 9 original papers devoted to high-voltage technique and to special problems of heavy-current engineering. The papers deal with the so-called supercorona effect which has an important influence on the dimensioning of the sparking distance for very high voltages at commercial frequency, and with the effects of periodic forces of short circuits on transformer windings. Also discussed are impedance models containing active components, the measurements of electric quantities using a-c model technique,

Card 1/4

Proceedings of the Institute (Cont.)

SOV/4409

the effect of eddy currents in d-c motors fed from rectifiers, as well as the contemporary state and comparative study of the theory of purely dielectric breakdown of solids and experimental investigations of impact properties of instrument transformers with layer windings. No personalities are mentioned. References accompany each paper.

### TABLE OF CONTENTS:

- I. Veverka, Antonín, and Vladimír Kreisinger. Spark-over Between Wire and Sphere
  There are 5 references: 1 French and 4 German.
- II. Kulda, Jiří. Effect of Periodic Short-Circuit Force on Transformer Winding 30 There are 2 references: 1 Czech and 1 German.
- III. Franzl, Milan. Single-Phase Lasting Short Circuit
  Between Two Transformers 43

Card 2/4

Proseedings of the Institute (Cont.) SOV/4409	
There are 2 references: 1 Czech and 1 German.	
IV. Čemus, Jiří. Feasibility of Impedance Models With Active Components There are 6 references: 3 Czech and 3 German.	66
V. Čemus, Jiří. Admittance Models There are 5 references: 4 Czech and 1 German.	75
VI. Hladik, Jiři. Measurement of Electric Quantities in the Technique of A-C Models There are 29 references: 11 Czech, 13 English, 1 French, and 4 German.	87
VII. Štepina, Jaroslav, and Jiří Bendl. Effect of Eddy Currents on D-C Motors Fed From Rectifiers There are 13 references: 5 Czech and 8 German.	123
VIII. Batka, Vilém. Present State of the Theory of Pure Electric Breakdown of Solids	159
Card 3/4	

Proceedings of the Institute (Cont.)

SOV/4409

There are 26 references: 1 Czech, 8 Soviet, 14 English, and 3 German.

AVAILABLE: Library of Congress

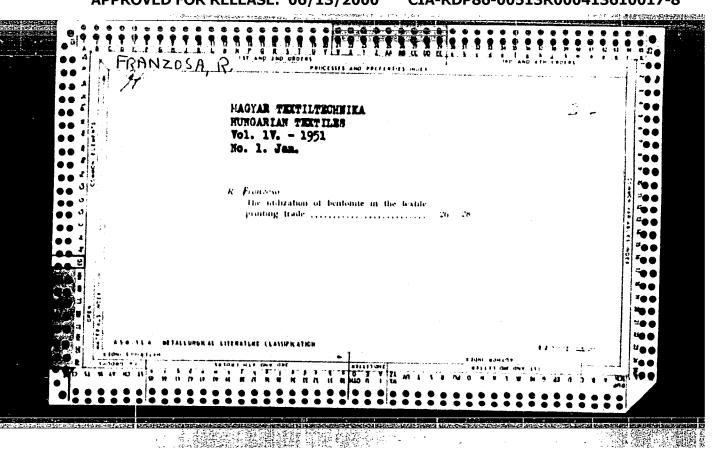
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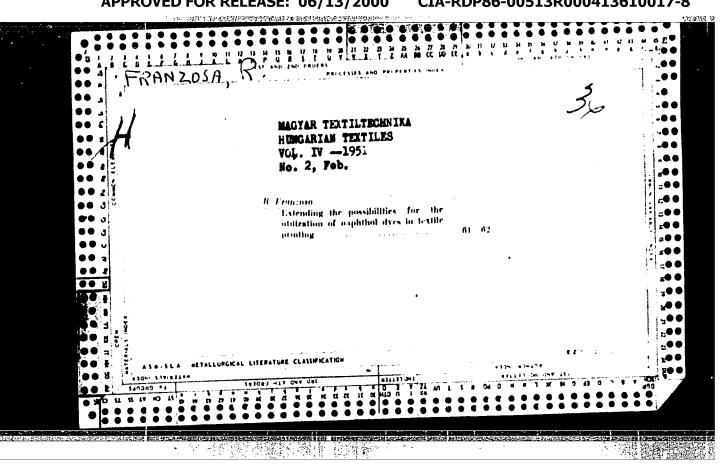
JP/rsm/ec 12-1-60

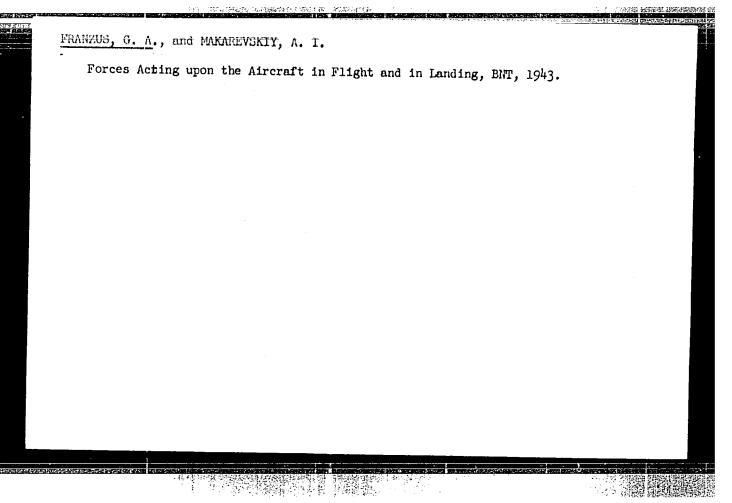
# FRANCI, Milan, inc.

Losses in the winding of Large turboalternators. El tech obzor 53 no.8:435-439 eg 164.

1. Institute of Electrical Engineering, Czechoslovak Academy of Sciences.







FRag

YUGOSLAVIA / Microbiology. Medical and Veterinary Microbiology. F-5

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 22055

Author Fras

Inst

Title : Dissociation of Anthrax Vaccine Strain 34F2 (Sterne).

Orig Pub: Veterin. arh., 1956, 26, No. 1-2, 21-28

Abstract: The phenomenon of dissociation in the vaccine strain 34F (Sterne) was studied. The produced strain of this vacciñe was planted on neutral agar and incubated in a thermostat in a normal atmosphere and in the presence of 10% CO2. After 24 hours normal R-shaped colonies developed on the medium. However, after 48 hours compact and light colonies appeared, which developed from, or on the borders of, the old colony. The new colonies had a smooth shiny surface. They could be transferred on agar. Upon incubation with CO, shiny smooth colonies were obtained with a raised center and uneven edges. They were designated S1-form. From the colonies grown in a

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YUGOSLAVIA / Microbiology. Medical andVeterinary Microbiology. F-5

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 22055

Author : Fras

normal atmosphere were also obtained semitransparent, shiny, round, raised, small colonies, designated as S2-form. Among these 5% had rough edges. Also typical RS colonies with uneven edges, smooth and convex center of a milky-green color were obtained. S- and RS-forms are not pathogenic to mice and not immunogenic. S-variant lost ability to form spores, S2 and RS lost this ability to a considerable degree (produce spores up to 20%), while the R-form is pathogenic to mice, immunogenic and forms spores up to 80-90%. Differences in dissociated colonies were observed by other indices. Therefore, for mass vaccine production, it is necessary to select fresh strains, which have not yet begun to dissociate.

Card : 2/2

-51-

FRAS, A.

"The Excretion of Tubercle Bacilli into the Milk of Cows which have reacted to the Tuberculiv Test". Dr. Antun Fras - ass. Dr. Bozidar Tunki - scientific collaborator of Inst. for Vet. & Med. Researches in Zagreb.

SOURCE: Vet. SVEZAK 2, p. 329, 1953

MIHALJEVIC, F.; FALISEVAC, J.; HEZJAK, B.; HEZJAK, V.; CVJETANOVIC, B.

FRAS, I.

Tularemia in Croatia. Higijena, Beogr. 6 no.2:129-150 1954.

1. Bolnica sa zarasne bolesti; Eavod sa mikrobiologiju Medicinskog fakulteta, Skola narodnog zdravlja, Institut za veterinarskomedicinska istraxivanja, Zagreb.

(TULAREMIA, epidemiol.

Tugosl.)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610017-8"

### "APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413610017-8

KL Michannen

Albania/Chemical Technology - Chemical Products and Their Application. Food Industry,

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63644

Author: Rush, Islam; Frasherl, Muharrem

Institution: None

Title: Significance of Enzymes and pH in Bread Baking from Wheat Flour

Original

Periodical: Rendesija e matjeve te pH ne prodhimin e bukes me grure te mbire,

Teknika, 1954, 1, No 2, 23-24; Albanian

Abstract: None

Card 1/1

ALBANIA/Chemical Technology. Chemical Products and Their Uses. Fort III. Food Industry. H

Abs Jour : Ref Zhur-Khimiya, No 15, 1958, 51973

Author : Frasheri, Muharon; Bimbashi, Hilmi Inst

Title : Tobacco Leaf Wasto Products and Their Uti-lization.

Orig Tub : Bul. shkene. natur., 1956, No 3, 120-135

Abstract : No abstract.

Card : 1/1

KRETOVICH, V.L., BUNDEL', A.A., FRASHERI, M.R., BOROVIKOVA, N.V.

Competitive inhibition of transamination in plants by hydroxylamine. Zhur.ob. biol. 19 no.5:414-416 S-0 '58 (MIRA 11:10)

1. Institut biokhimii imeni A.N. Bakha AN SSSR.

(PLANTS, EFFECT OF HYDROXYLAMINE ON )

(GLUTANIC ACID)

(SERINE)

17(3) AUTHORS:

Kretovich, V. L., Bundel', A. A.,

SOV/20-122-6-30/49

Frasheri, M. R., Borovikova, N. V.

TITLE:

On the Participation of Hydroxylamine in the Synthesis of Amino Acids in Plants (Ob uchastii gidroksilamina v sinteze

aminokislot v rasteniyakh)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 6, pp 1065 -

1067 (USSR)

ABSTRACT:

Already in 1884 (Ref 2) and in 1937 (Ref 1), respectively, the opinion was expressed that plants during the assimilation of nitrates form hydroxylamine which in consequence of a later reaction with carbonyl compounds forms oximes. According to this hypothesis oximes are changed by reduction into corresponding amino acids. Thus hydroxylamine together with ammonia, which in theoretical constructions is used as an inorganic initial compound in the synthesis of amino acids, have become important substances. In spite of previous papers dealing with the subject (Refs 3 - 7) the actual participation of hydroxylamine in the synthesis of amino acid by plants has never been demonstrated by experiment. It was even ascertained that hydroxylamine as an intense

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On the Participation of Hydroxylamine in the Synthesis of Amino Acids in Plants

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intercellular toxin (kletochnyy yad) delays several processes, especially the reaction of the fermentative transamination (Ref 8). It is quite obvious that the problem of the participation of hydroxylamine investigated has to be discussed mainly with respect to the concentrations applied. The present paper aimed at investigating the participation of hydroxylamine in the synthesis of amino acid in the pulp and extracts of plant tissues. Small leaves of 10 - 12 days old wheat-seedlings and of 20 - 24 days old pumpkin-seedlings were used for this purpose. Table 1 shows the results of the experiments for the explanation of the influence exercised by hydroxylamine upon the synthesis of serine and glutaminic acid in the pumpkin-seedlings. It can be seen from table 1 that in the pulp of small leaves in the presence of hydroxylamine an intense synthesis of the serine and a distinctly marked synthesis of the glutaminic acid take place. In the pulp of wheat-seedlings the synthesis of both amino acids in question could be ascertained. However, the increase in the content of these acids in wheat and in pumpkin was different. It is difficult to explain the cause of this difference.

Card 2/3

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610017-8"

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On the Participation of Hydroxylamine in the Synthesis of Amino Acids in Plants

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Francisco de la filla de la fi

Finally, assumptions on the mechanism of the syntheses

discussed are expressed. There are 1 table and 14 references,

4 of which are Soviet.

ASSOCIATION: Institut biokhimii im. A. N. Bakha Akademii nauk SSSR

(Institute of Biochemistry imeni A. N. Bakh of the Academy of

Sciences, USSR)

PRESENTED:

July 1, 1958, by A. I. Oparin, Academician

SUBMITTED:

June 30, 1958

Card 3/3